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	Application No.	Applicant(s)	
Alatina of Allawahility	10/751,135	PATEL ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Hai L. Nguyen	2816	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	6 (OR REMAINS) CLOSED in this ap) or other appropriate communication RIGHTS. This application is subject to	plication. If not include will be mailed in due o	d course. THIS
1. X This communication is responsive to the amendment filed	<u>on 5/26/2005</u> .		
2. X The allowed claim(s) is/are 1-18 and 20-28.			
3. $igotimes$ The drawings filed on $26 May 2005$ are accepted by the E	xaminer.		
 4. ☐ Acknowledgment is made of a claim for foreign priority units a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have a copies of	e been received. e been received in Application No comments have been received in this of this communication to file a reply MENT of this application. Initted. Note the attached EXAMINER was reason(s) why the oath or declarates the submitted. It is son's Patent Drawing Review (PTO- C's Amendment / Comment or in the Comment of the drawing the header according to 37 GFR 1.121 (Desit of BIOLOGICAL MATERIAL resources).	complying with the required and an arrange application of the front (not the d).	uirements OTICE OF back) of
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 26 May 2005 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	Paper No./Mail Da	(PTO-413), te ment/Comment	

DETAILED ACTION

Response to Amendment

1. The amendment received on 5/26/2005 has been reviewed and considered with the following results:

As to the objection to the drawings, Applicant's revision of the drawings has overcome the objection, as such; the objection has been withdrawn.

As to the rejections to claims 17-19, under 35 U.S.C. 112, 2nd paragraph, Applicant's amendments have overcome the rejections, as such; the rejections have been withdrawn.

As to the prior art rejections to the claims, Applicant's arguments with respect to the prior art rejections mailed on 2/24/2004 have been fully considered and found persuasive, as such; the prior art rejections have been withdrawn. Since the amended claims now read over cited prior art of record, the case is found to be in allowance condition.

REASON FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to disclose or fairly suggest a circuit (400 in instant Fig. 4), and a method of use thereof, as recited in claims 1 and 23, having specific structural limitations such as multiple interpolator blocks (408, which is also shown in detailed as 500-530 in instant Fig. 5), operably coupled to the delay chain (406), wherein consecutive ones of the multiple interpolator blocks are capable of receiving and interpolating between consecutive ones of the multiple delayed signals (430) to produce an interpolated version (423) of the input signal (428), wherein the interpolated version is delayed to one of multiple, intermediate delay values that are

separated by a second phase increment that is smaller than the first phase increment; and a current source select signal generator circuit (800 in instant Fig. 8), operably coupled to the multiple interpolator blocks, which includes a split current source (804, 806), and which is capable of providing variable current source select signals to the multiple interpolator blocks to control interpolation between the consecutive ones of the multiple delayed signals; and being configured in combination with the rest of the limitations of the base claims and any intervening claims.

Claims 2, 4, 7, 12, 13, 15, 16, 20, 21, and 25 are allowed for similar reasons; note the above discussion with regard to claims 1 and 23.

The prior art of record fails to disclose or fairly suggest a circuit (400 in instant Fig. 4), as recited in claim 26, having specific structural limitations such as multiple interpolator blocks (408, which is also shown in detailed as 500-530 in instant Fig. 5), operably coupled to the delay chain (406), wherein consecutive ones of the multiple interpolator blocks are capable of receiving and interpolating between consecutive ones of the multiple delayed signals (430) to produce an interpolated version (423) of the input signal (428), wherein the interpolated version is delayed to one of multiple, intermediate delay values that are separated by a second phase increment that is smaller than the first phase increment; and a signal generator circuit (800 in instant Fig. 8), operably coupled to the multiple interpolator blocks, to provide variable signals (PBIASs, PHSEL 0 - PHSEL 12) to the multiple interpolator blocks to control interpolation between the consecutive ones of the multiple delayed signals.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Hai L. Nguyen whose telephone number is 571-272-1747 and

Right Fax number is 571-273-1747. The examiner can normally be reached on Monday-

Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Timothy Callahan can be reached on 571-272-1740. The official fax phone number

for the organization where this application or proceeding is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 571-272-1562.

5. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

June 8 2005

Kenneth B. Wells

Primary Examiner